




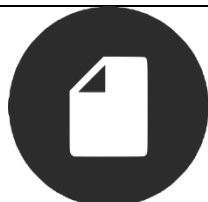


# Rockets

Keywords	Level	Time	Core Skills	Type of Activity
				
Forces Motion	Primary 3 <sup>rd</sup> – 6 <sup>th</sup> class	1h 15 min	Modelling Inquiry activity	Science experiments

## Brief Description



Students will design and test foam rockets and straw paper rockets. Students will use mathematical skills to measure and assemble rockets, then test to see how different factors affect the flight of the rocket.

## Learning Objectives and Curricular Links



The child shall be enabled to...  
Investigate how forces act on objects  
Identify and explore how objects and materials may be moved.  
Come to appreciate that gravity is a force.  
**Investigate** how materials may be used in construction.

## Materials

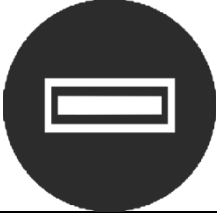



Foam Rockets: foam pipe insulation, duct tape, elastic band, cardboard  
Straw Rockets: paper, straws, masking tape

## Background Information / Skills required



ESA's Up, Up, Up worksheets include background information about rockets:  
Teacher Guide:  
[https://esamultimedia.esa.int/docs/edu/PR23a\\_Up\\_up\\_up\\_teacher\\_guid\\_e.pdf](https://esamultimedia.esa.int/docs/edu/PR23a_Up_up_up_teacher_guid_e.pdf)  
And Pupil Worksheets:  
[https://esamultimedia.esa.int/docs/edu/PR23b\\_Up\\_up\\_up\\_pupil\\_activiti\\_es.pdf](https://esamultimedia.esa.int/docs/edu/PR23b_Up_up_up_pupil_activiti_es.pdf)  
And at ESA Kids <https://www.esa.int/esaKIDSen/Launchers.html>  
Some fine-motor scissor skills are needed to make the rockets.  
Fair testing will be used in the inquiry activity.

	<b>Summary Activity Description</b>
	<p>Two different model rockets will be made and tested. Children will design their own fair tests to explore what affects the flight of their rocket.</p>
	<b>Additional Information / Follow on Activities</b>
	<p>DPSM activities on the theme of rockets include:</p> <p>Make a Rocket (a Pop Rocket powered by a fizzy tablet):  <a href="https://www.sfi.ie/site-files/primary-science/media/pdfs/col/make_a_rocket.pdf">https://www.sfi.ie/site-files/primary-science/media/pdfs/col/make_a_rocket.pdf</a></p> <p>Rocket Launch (balloon on string rocket): <a href="https://www.sfi.ie/site-files/primary-science/media/pdfs/col/rocket_launch.pdf">https://www.sfi.ie/site-files/primary-science/media/pdfs/col/rocket_launch.pdf</a></p> <p>Rocket Mouse is suitable for younger children:  <a href="https://learning-resources.sciencemuseum.org.uk/resources/rocket-mice/">https://learning-resources.sciencemuseum.org.uk/resources/rocket-mice/</a></p>